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(21)Application number : 2003-397524 (71)Applicant : SAITO SHIGEO
ISHIWATARI ISAMU
HAYAKAWA YASUHIKO
MORIIZUMI TOSHIYUKI
(22)Date of filing : 27.11.2003 (72)Inventor : SAITO SHIGEO
ISHIWATARI ISAMU

(54) HUMAN STEM CELL DERIVED FROM PLACENTA OR AMNIOTIC FLUID AND METHOD FOR ESTABLISHING THE SAME AND METHOD FOR DIFFERENTIATION-INDUCTION TO ORGAN

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a human stem cell enabling passage (≥ 30 times) having sufficient number of times as a stem cell from human placenta or amniotic fluid treated as a waste when delivered.

SOLUTION: The human stem cell has the following cell biological characteristics. (1) The stem cell is derived from placenta or amniotic fluid. (2) The stem cell has a karyotype of normal diploid. (3) The stem cell continues proliferation in an undifferentiated state. (4) Alkaline phosphatase activity is positive. (5) The stem cell expresses transcription factors Rex-1, Oct-4 and Ecat-4. (6) The stem cell enables passage of ≥ 30 times while keeping multipotency.

LEGAL STATUS

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